

WHAT IS CLAIMED IS:

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1. A portable advisory system for balancing
airflows in a paint booth comprising:

5 a portable airflow sensor to measure airflows
in the paint booth; and

a portable computer connected to said airflow
sensor for collecting data from said airflow sensor and
guiding an operator through a process of adjusting multiple
10 fan speeds and duct dampers to achieve desired airflows.

2. A portable advisory system as set forth in
claim 1 wherein said computer includes a database of optimal
control settings for storing information of last optimal
15 commands and last optimal sensitivity model.

3. A portable advisory system as set forth in
claim 1 wherein said computer includes a database for storing
information of air velocities and VFD/damper commands.
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4. A portable advisory system as set forth in
claim 1 wherein said computer is a laptop computer.

5. A portable advisory system as set forth in
25 claim 1 wherein said computer is a palmtop computer.

6. A portable advisory system as set forth in claim 1 wherein said computer includes a flexible set-up dialog.

5 7. A portable advisory system as set forth in claim 1 wherein said computer includes an algorithm communicating with a plurality of databases and a flexible set-up dialog.

10 8. A method of balancing airflows in a paint booth, said method comprising the steps of:

providing a portable airflow sensor to measure airflows in the paint booth;

15 providing a portable computer and connecting the portable computer to the air flow sensor;

measuring the velocity of the airflows in the paint booth with the airflow sensor and storing the measured airflows in a database; and

20 updating a sensitivity model (J) of the paint booth with the measured velocity of the airflows to balance the airflows in the paint booth.

9. A method as set forth in claim 8 including the step of updating on-line the VFD and damper settings.

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